DDR-E04AB

DDR-D04AB

User Manual

2015 Mar V1.0

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About this user manual

Before installing and using this DVR unit, please read this user manual carefully.

Be sure to keep it handy for later reference

Package of contents

Unpack carefully. This is electronic equipment and should be handled carefully. Check to ensure that the following items are included

1.DVR unit 2.Mouse 3. HDD screw (4pcs) 4.ower Adapter(DC12V)

5. 4x.1080p DTV camera(Optional) 6. HDMI Cable

Safety Precautions

Caution

Do not remove cover No user serviceable parts inside Refer servicing to qualified service personnel.

Warning

To reduce risk of fire or electric shock.

Do not expose this appliance to rain or moisture.

Safety Precautions

Refer all work related to the installation of this product to qualified service personnel or system installers

Do not block the ventilation opening or slots on cover.

Do not drop metallic parts through slots. This could permanently damage the appliance. Turn the power off immediately and contact qualified service personnel for service.

Do not attempt to disassemble the appliance. To prevent electric shock, do not remove screws or covers .There are no user-serviceable parts inside. Contact qualified service personnel for maintenance. Handle the appliance with care. Do not strike or shake, as this may damage the appliance.

Do not expose the appliance to water or moisture ,nor try to operate it in wet areas. Do take immediate action if the appliance becomes wet. Turn the power off and refer servicing to qualified service personnel. Moisture may damage the appliance and also cause electric shock.

Do not overlord outlets and extension cords as this may result in a risk of fire or electric shock

Do not use strong or abrasive detergents when cleaning the appliance body. Use a dry cloth to clean the appliance when it is dirty. When the dirt is hard to remove ,use a mild detergent an wipe gently.

Do not operate the appliance beyond its specified temperature ,humidity or power source ratings. Do not use the appliance in an extreme environment where high temperature or high humidity exists. Use the appliance at temperature within 0~+40 ℃ and a humidity below 90%. The input power source for this appliance is AC100~240V.

The lighting flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated " dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to presence of Important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Warning

- Electrostatic-sensitive device. Use proper CMOS/MOSFET handing precautions to avoid electrostatic discharge.
- To prevent fire or shock hazard, do not expose units not specifically designed for outdoor use to rain or moisture.

Attention

Installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.

Power Disconnect:

- Unit with or without ON-OFF switches have power supplied to the unit whenever the power cord Is inserted into the power source; however the unit is operational only when the ON-OFF switch is In the ON position. The power cord is the main power disconnect for all units;.
- **AC100—240V Power Adapter**

Note:

This is a class A product. In a domestic environment this product may cause radio interference in Which case the user may be required to take adequate measures.

Note:

Before installing and using this unit, please read this manual carefully. Be sure to keep it handy for later reference.

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

Do not place on unstable work surface. Seek servicing if the casing.

Important Safeguards

Read instruction

All the safety and operating instructions should be read before the unit is operated.

Retain instructions

The safety and operating instructions should be retained for future reference.

Heed Warnings

All warnings on the unit and in the operating instructions should be adhered to.

Follow instructions

All operating and use instructions should be followed.

Cleaning

Unplug the unit from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Attachment

Do not use attachment not recommended by the product manufacturer as they may cause hazards.

Water and Moisture

Do not use this unit near water-for example near a bath tub, wash bowl, kitchen sink, or laundry t ub, in a wet basement, near a swimming pool, in an unprotected outdoor installation, or any area which is classified as a wet location.

Servicing

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, playing particular attention to cords and plugs, convenience receptacles and the point where they exit from the appliance.

Object and Liquid Entry

Never push objects of any kind into this unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

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Chapter 1 Introduction

1.1 Overview

DDR-E04AB / DDR-D04AB, is a ccHDtv standard with 4 channels DVR recorder; powered by Embedded LINUX decoding technologies with superior stability and performance. It can support most of today's off-the-shelf DTV cameras for up to 4 channels video recording and let you access your recordings quickly and reliably. With this system, customers can rapidly deploy their ccHDtv surveillance application with optimum surveillance and operating efficiency, and delivers a better pluralism and flexibility than the counter-part Windows® powered system.

With DDR-E04AB / DDR-D04AB, user does not need to rewire original coaxial cables while upgrade to 1080P. Just simply replacing recorder and camera, no matter how bad the quality of original coaxial cable goes.

More importantly, with 500+ meter installation range and high flexibility of deployment you can just check the installation environment, then decide which surveillance system is deployed to be as Ring, Star or Bus (Daisy Chain). It's very convenient for replaced market or new installed market.

Main Features:

- 4 Channel Full HD 1080P Standalone real time recorder
- H.264 Compression
- No need to replace existing coaxial cables
- Installation range more than 500M+ without repeater
- Only one coaxial cable is able to connect multiple cameras(up to 4)
- Support multiple deployment as Multiplex Network, Star and Bus
- Meet with the ccHDtv Specification.

Product Specifications

System	
Main Board Processor	TI DaVinci DM8107
Operation System	Embedded LINUX
System Resources	Live views, recording and playback, backup, remote
Control Mode	USB Mouse
Video	
Input	4 Channel, 1 or 4 BNC

Standard	Dual stream 1080p / D1, (25~30fps),
Output	1 HDMI
Display	
Display Split	1/4
Resolution	1080p @ 30 fps per channel
OSD	Camera title, date, time, video loss, motion detection and recording
Recording	
Video / Audio Compression	H.264 / G711, G726, PCM
Image Resolution	Full Screen: 1080p Quad screen: D1
Encoding Speed	Main Stream: 1080p 25~30 fps Secondary Stream: D1 25~30 fps
Bit Rate	Full Screen: 6~7M bps Quad Screen: 1~2M bps
Recording Mode	Continuous/Event/Schedule/Motion
Recording Priority	Manual > Event > Schedule
Video Detection & Alarm	
Motion Detection	Supported
Video Lost & Camera Blank	Notification supported
Playback & Backup	
Playback Channel	1 and 4
Search Mode	Timeline and event
Playback Functions	Play, Pause, Stop, Fast Forward 30 seconds, Rewind 30 seconds and Frame by Frame
Backup Mode	SD Card, USB Flash Drive
Network	
Ethernet	RJ-45 Port (10/100M)
Protocol	HTTP, DHCP, Static IP, DNS, PPPoE, DDNS, FTP, NTP, RDATE, SSH, UPnP and SMTP
Remote Operation	Through PC software or App
Hard Disk	
Hard Disk	1 SATA Port
eSATA	External Storage
Auxiliary Interface	
USB Interface	USB X 3
Environmental	
Power Supply	AC 100~240V, 50/60 Hz
Power Consumption	36W (With 1 internal HDD)
Working Environment	14° F~130°F/-10°C~+55°C 10~90%RH / 86~106kpa
Dimension	310 x 200 x 58.80mm (L x W x H)
Weight	1.4 kg
Certifications	CE / FCC / RoHS

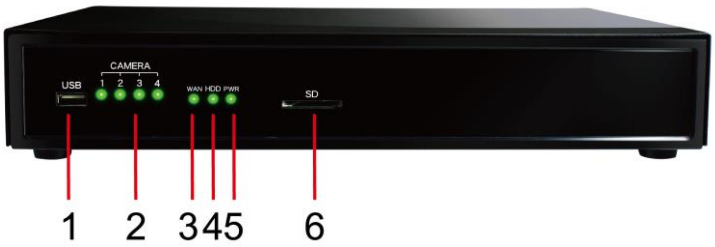
Note : Products specifications are subject to change without previous notification

1.2 Product Components

The package contains the main unit and its accessary as specified below. When you purchase the DVR, please check to ensure the components specified below are included.

- The DVR unit
- Screws for HDD
- Power Adapter (DC12V)
- 4x1080p DTV camera
- Setup Wizard, Windows® Remote Client,
- For iPhone / iPad users & Android users , please visit APP Store or Google Play to download " ccHDtv Mobile" for remote mobile device access .

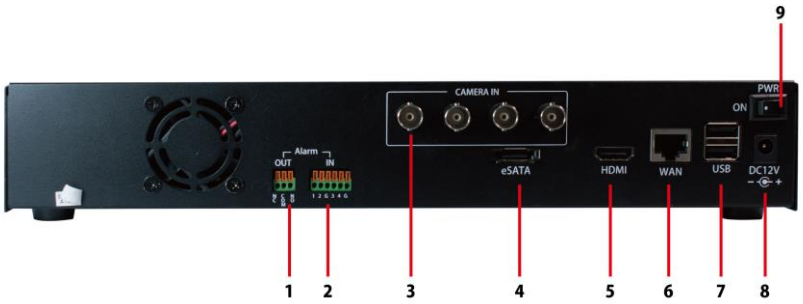
1.3 Front Panel



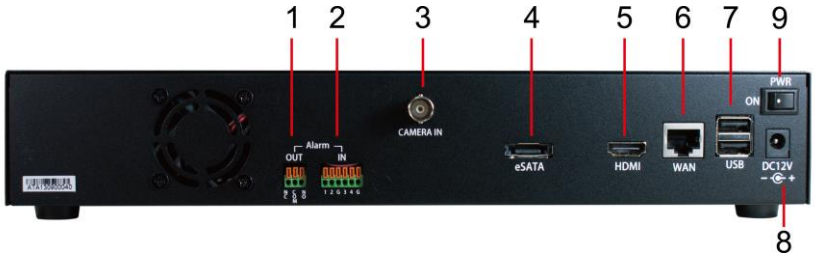
1. USB Port.
2. Camera (1.2.3.4) on
3. WAN LED
4. HDD activity LED
5. Power LED
6. SD card Connector

1.4 Rear Panel

DDR-E04AB



DDR-D04AB

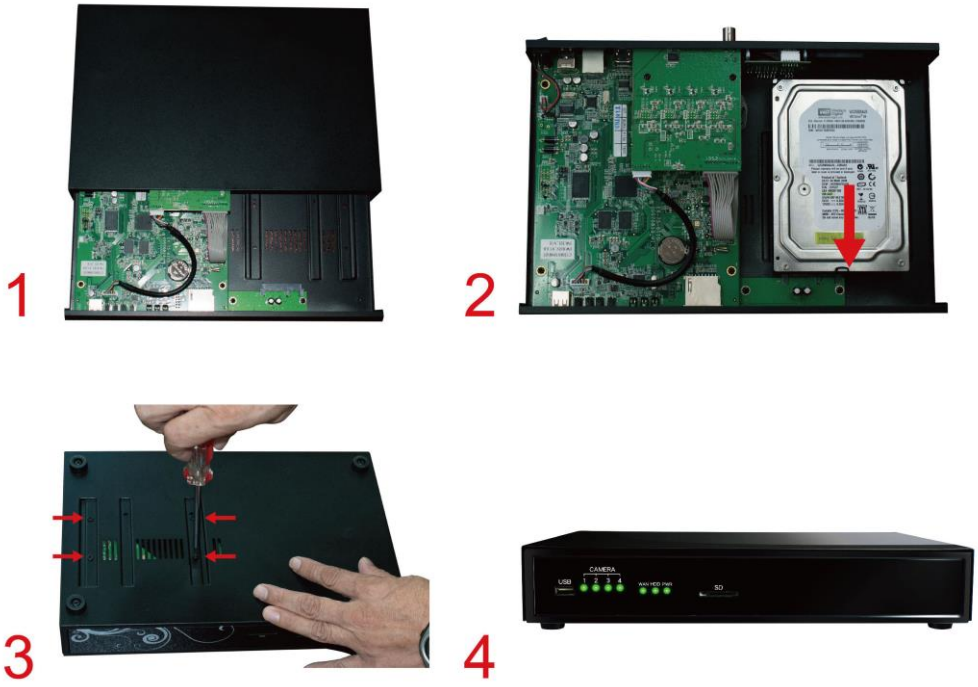


1. Alarm OUT 2. Alarm IN 3. BNC 1 or 4 connector 4. eSATA port
5. HDMI Port 6. WAN Port 7. USB Port x 2 8. DC 12V power connector
9. Power switch

Chapter 2 Installation

2.1 HDD Installation

1. Loosen the four screws to open the cover
2. Put the HDD inside and connect with SATA connector
3. Lock 4 screws for HDD
4. Put on cover and Lock the 4 screws



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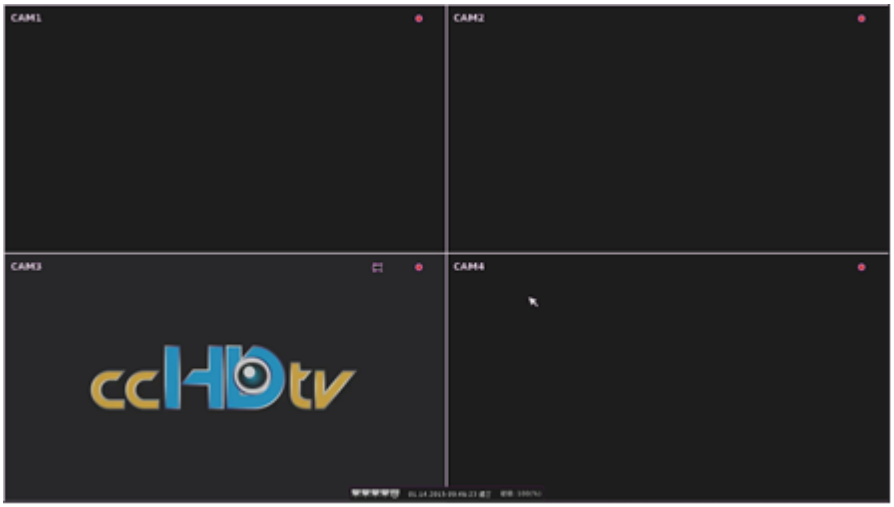
2.2 Hardware connection

1. Connect one end of the network cable into the WAN port.
2. Connect the power adapter to the power source.
3. Connect the power adapter to the rear panel of the DVR unit.
4. At the rear panel of the DVR unit, click the power switch on.
5. It takes about one or two minutes for the DVR unit to fully power up. Once it is powered up, the Power LED will turn Green and WAN LED will turn Green
6. Connect monitor to HDMI connector.

2.3 Setup DVR

2.3-1 Power On

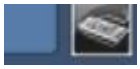
Click power switch. The following screen will appear.
(It is only for viewing instead of setting up by logging in with a “Guest” of user name.)



A. Press the right button of mouse in the grid to show the following screen.

B. Press ”Login” ,the following screen appears

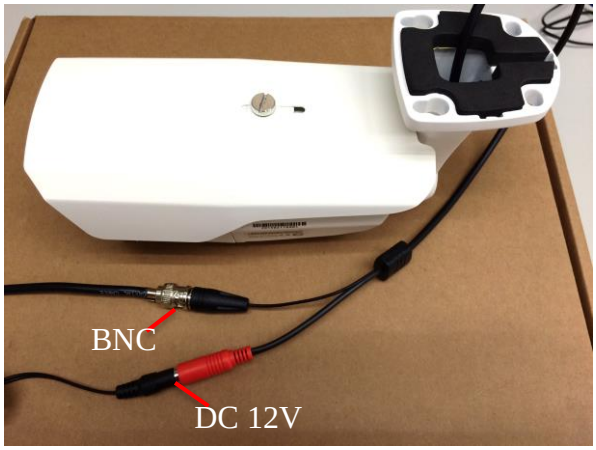
2.3-2 Login Screen

Press  to show a Virtual keyboard on the right side.

. (Note: The default administrator: User Name is" **admin"**, Password is "**admin**"). Press "LOG IN"

2.3-3 Camera Installation

A. Connect coaxial cable and power cable step by step.

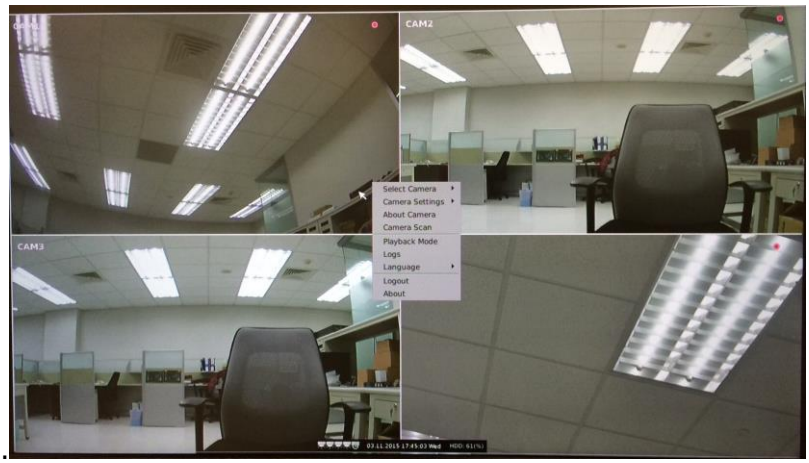


NOTE: Power input follows DC12V⊕⊙⊖

DDR-E04AB to follow the following diagram to connect cameras (up to 4)

DDR-D04AB to follow the following diagram to connect cameras (up to 4)

B. Press the right mouse in a grid will appear the following screen.



C. Press "Select Camera" to set the camera's channel & frequency.

Note1: Each camera's frequency is predefined and labeled on its own body.
Note2: Each camera's channel & frequency must be different for distinguishing when is connected to DDR-D04AB is no limitation for channel & frequency.
Behind the camera frequency, there is a number labeled:
0 -> Represents there is no camera with the frequency.
1 ->Represents camera is locked with the frequency but return channel is not available.
2 -> Represents camera is locked with the frequency and return channel is available.

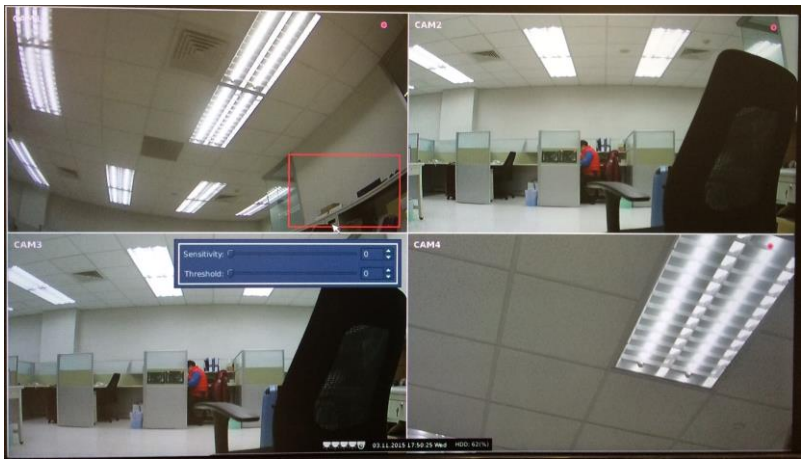
D. Press the "Camera Settings" and then press the "Image Settings" to display the following screen

1. Enter the camera's name.
2. OSD 0FF or ON (display camera's name, date and time).
3. Mirror Mode: vertical and horizontal flip.
4. Flicker Control: Flicker frequency is set to be 50Hz or 60Hz. (according to the local power soured)
5. Brightness: Move the slider to set the brightness of image (0 to 255).
6. Color Saturation: Move the slider to set the color saturation of image (0 to 255).
7. Contrast: Move the slider to set the contrast of image (0 to 255).
8. Sharpness: move the slider to set the sharpness of image (0 to 255).

E. Press the "Camera Settings" and then "Stream Settings" to display the following screen

1. Camera's Resolution (appear automatically)
2. Frame Rate : (5~30) (appear automatically)
3. Bit Rate (500, 1000,1500,2000).

F. Press the "Camera Settings" and then "Motion Settings" by using the mouse from (upper left to lower right) to set the motion area.



1 Set motion area with the red line

2. IN the motion area, by using mouse right-click button to display the adjustment windows of Sensitivity and Threshold (0-100).

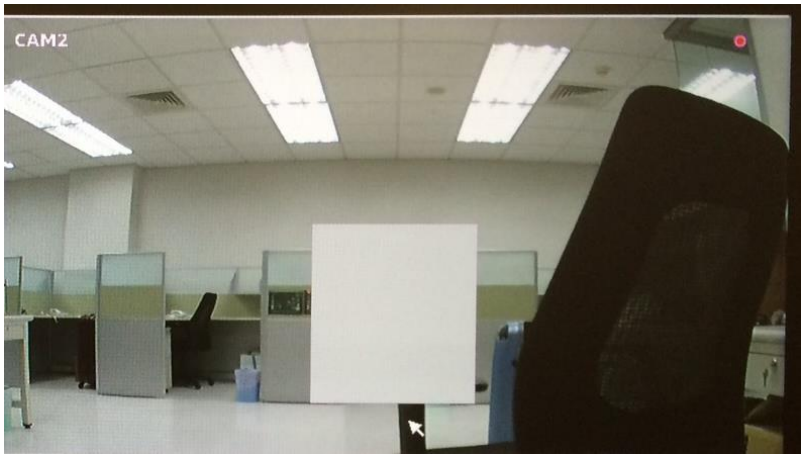
3. If there are something moved into the motion area, display will show “. ” pattern and motion areas appear green line.

….

4. Release “Motion Settings”

Press the "Camera Settings" and then "Motion Settings" by using the mouse from (lower right to upper left) to release the motion area

G. Press the "Camera Settings" and then "Private Settings" by using the mouse from (upper left to lower right) to set private area.



1. The hiding place will be shown with a blank shadow in the window

2. Release “Private Settings”

Press the "Camera Settings" and then "Private Settings" by using the mouse (lower right to upper left) to release the private area.

H. Press ”About Camera” to display the following screen

To show the Manufacturer, Model, Camera FW, FFT, Code Rate, Guard Interval, Quality, Strength, BER, Abort Count, Frequency.

I. Press ”Camera Scan” to display the following screen

Digital display 0-15, 15 means the scan is complete. After scanning to show the image

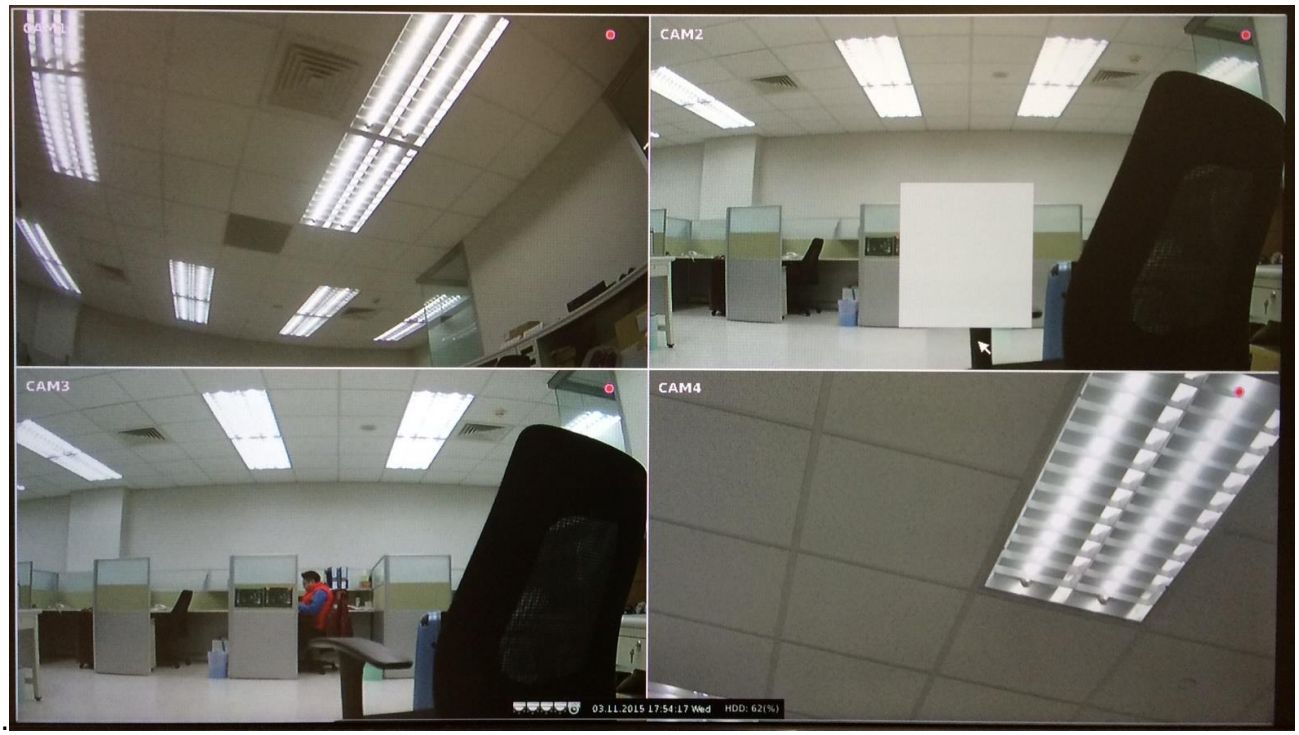
Note: 1.You can only do “Camera Scan” one by one.

2. DDR-D04AB: After the scan is completed, Press "Select Camera” to show the number after the camera frequency, "2" means the camera’s function is available. (up to 4 camera)

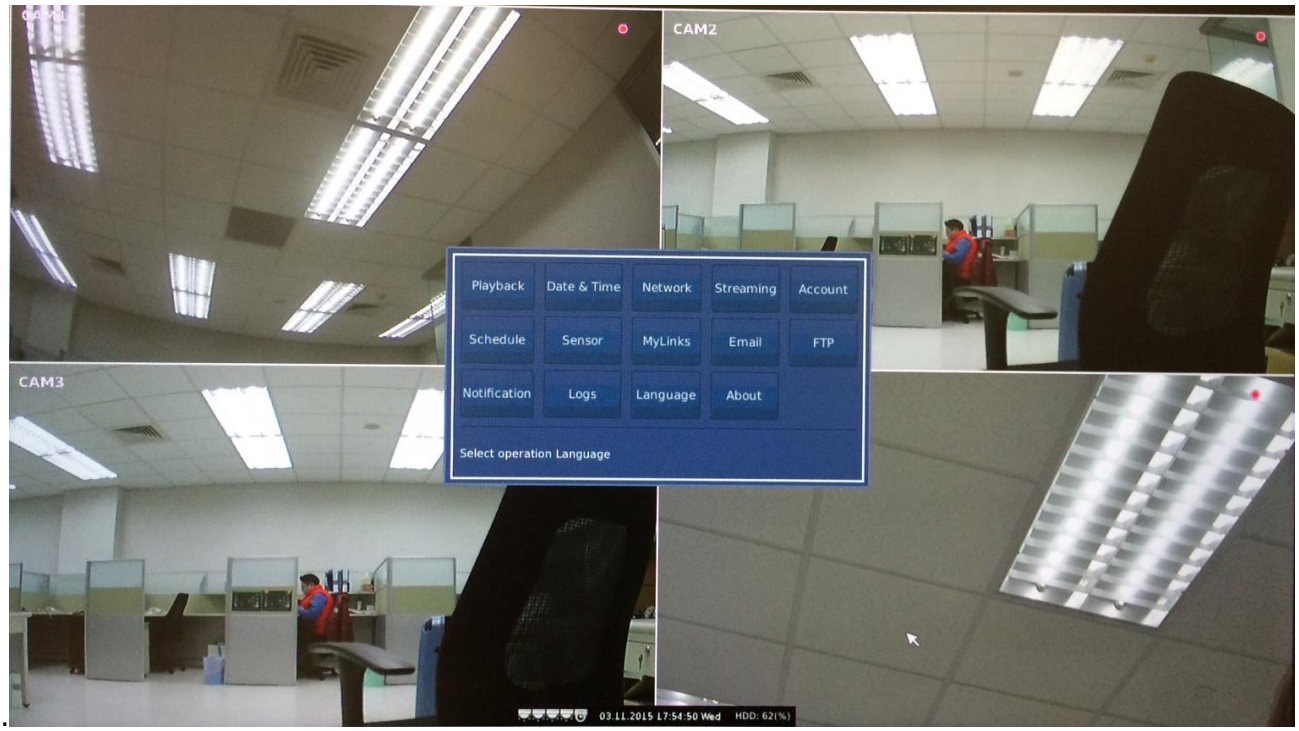
Chapter 3 Getting Start

3.1 Live Display Screen

The following screen will appear after four cameras being installed

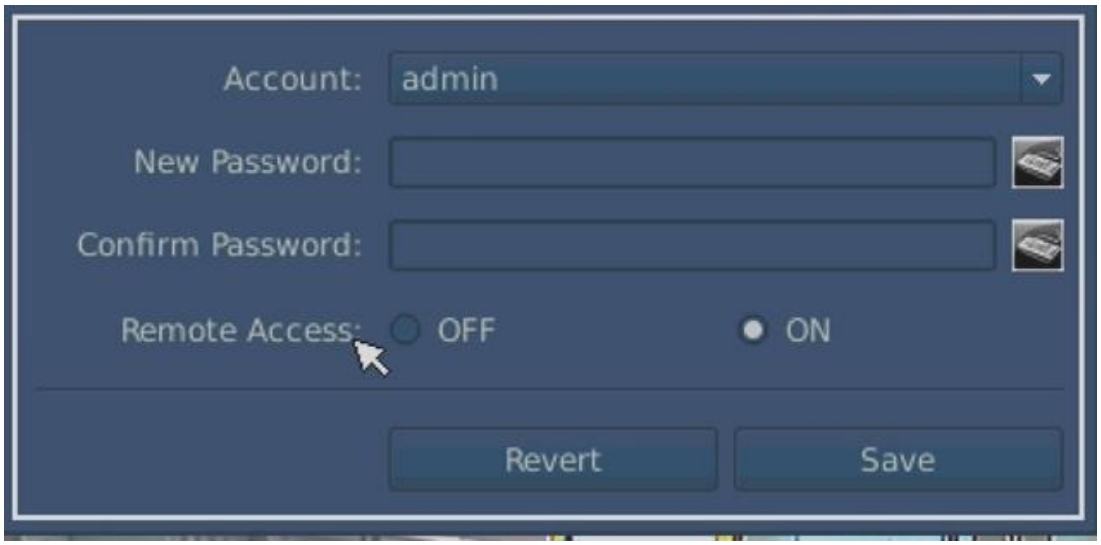


Press the left mouse button to display the following screen



3.2 Account setting

Press Account, the following window is displayed



1. Account: Only the "admin" and "guest".
2. Set a new password and confirm password.
3. Remote Access: ON or OFF.
4. Press the "Save" to confirm setting or press "Revert" to revert again.

3.3 Streaming

Press Streaming, the following window is displayed

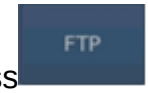
1. Show external IPv4 address.(show automatically)
2. Show Internal IPv4 address. (show automatically)
3. Setting HTTP Port.
4. Setting Streaming Port.
5. Press the "Save" to confirm setting or press "Revert" to revert again.

3.4 Network Setting

Press Network, the following window is displayed

1. Status :Link Up or Link Down
2. Using DHCP: OFF or ON(Automatically obtain IP Address)
3. Specify the DNS:0FF or ON(Setting Preferred & Alternate DNS Server)
4. Press the "Save" to confirm setting or press "Revert" to revert again.

3.5 FTP

Press 

, the following window is displayed

A. Setup FTP Server.

B. Select Connection Mode: Active or Passive.
C. Setup FTP Port.
D. Setup Username.
E. Setup Password.
F. Setup Upload Path.
G. Press the "Test" or "Save" to appear set-up successfully, press "Revert" to revert again.

3.6 Email

Press

, the following window is displayed

A. Setup SMTP Server.
B. Select Secure Connection: NONE, SSL or STARTTLS.
C. Setup SMTP Port.
D. Setup Username.
E. Setup Password.
F. Setup Your Name.
G. Setup Email Address.
H. Setup Recipient To :
I. Press the "Test" or "Save" to appear set-up successfully, press "Revert" to revert again.

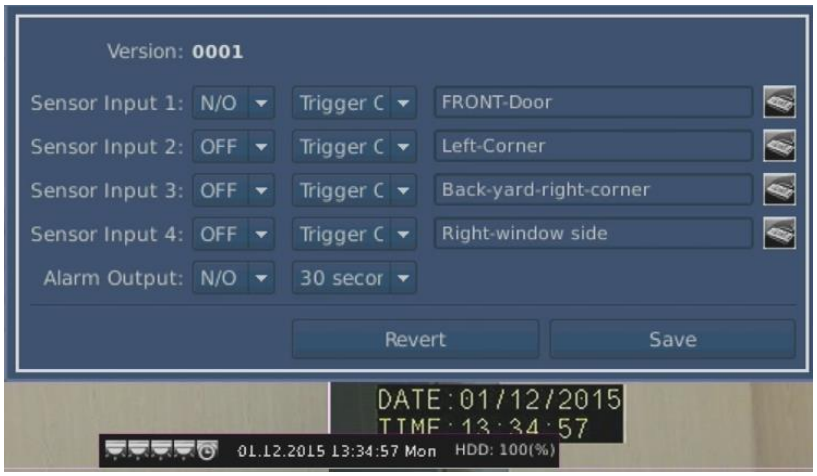
3.7 MyLinks

Press MyLinks the following window is displayed

1. Enter the name and press "Save" to show the registration is completed successfully.
2. From external site to search this machine, enter the canonical name is: **my-ndr.net**

3.8 Sensor

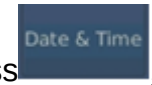
Press Sensor, the following window is displayed


Version: 0001
Sensor Input 1: N/O Trigger C FRONT-Door
Sensor Input 2: OFF Trigger C Left-Corner
Sensor Input 3: OFF Trigger C Back-yard-right-corner
Sensor Input 4: OFF Trigger C Right-window side
Alarm Output: N/O 30 secor
Revert
Save
DATE:01/12/2015
01.12.2015 13:34:57 Mon HDD: 100(%)

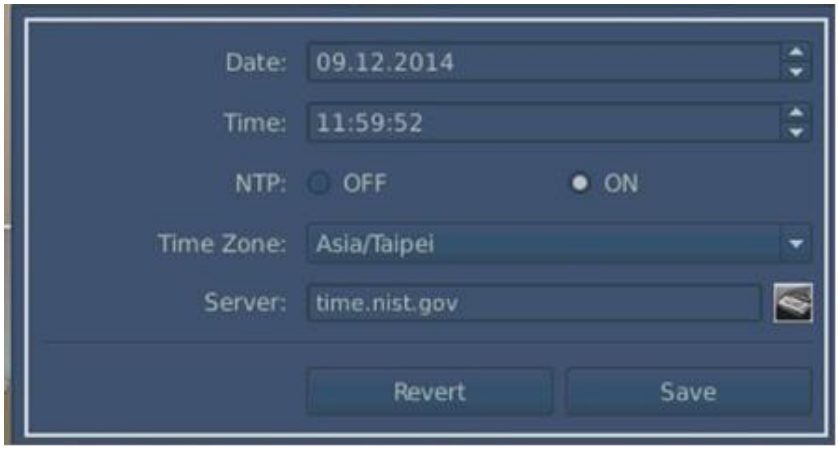
A. Setup Sensor Input: 1. OFF, N/C or N/O 2. Set up the sensor's action 3. Sensor location name setting (total of 4).
B. Setup Alarm Output 1. OFF, N/C or N/O 2. Alarm time setting.
C. Press "Save", appears set-up successfully, press "Revert" to revert again.

Sensors and alarm icon will appear in Red and display the trigger time when sensor is triggered.

3.9 Date & Time Setting

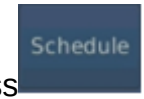
Press 

, the following window is displayed



1. Manual adjustment: NTP “OFF” and choose the adjusted item, then press to adjust up or down.
2. Network adjustment time: NTP “ON” (Synchronize the server’s right time)
3. Time Zone select
4. Server setting.
5. Press the "Save" to confirm setting or press "Revert" to revert again.

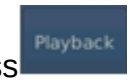
3.10 Schedule

Press 

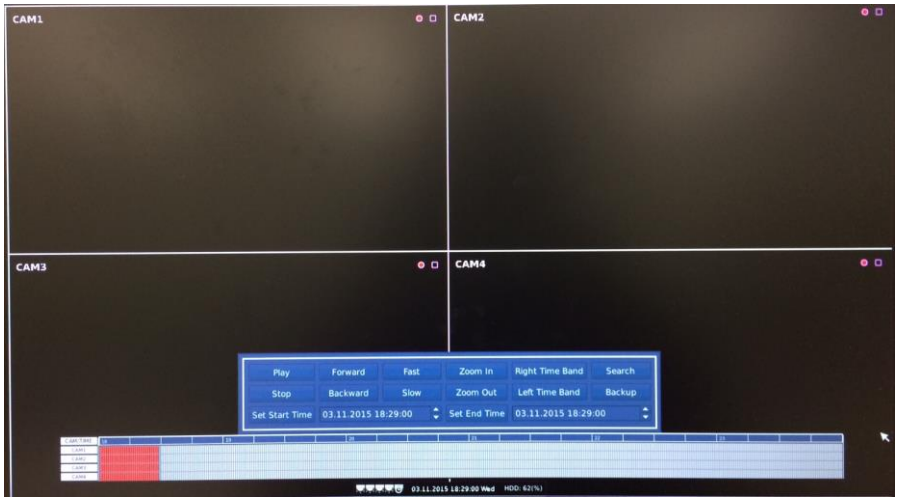
, the following window is displayed

1. Video schedule is one week and 24Hrs every day.
2. Each cell is 30 minutes
3. General Schedule is red and Motion Schedule is yellow and I / O alarm is blue
4. Choose the setting time or date line and then entire column or each grid can be set.
5. Press the "Save" to confirm setting or press "Revert" to revert again.

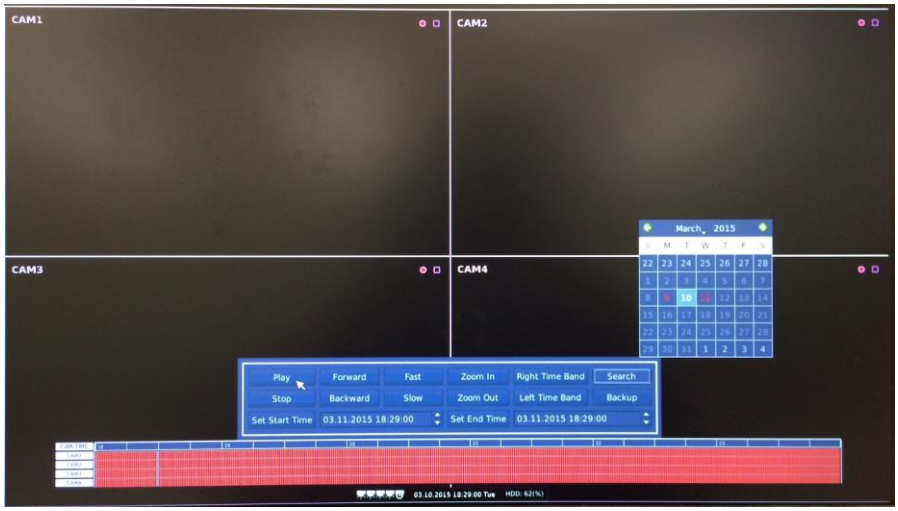
3.11 Playback

Press 

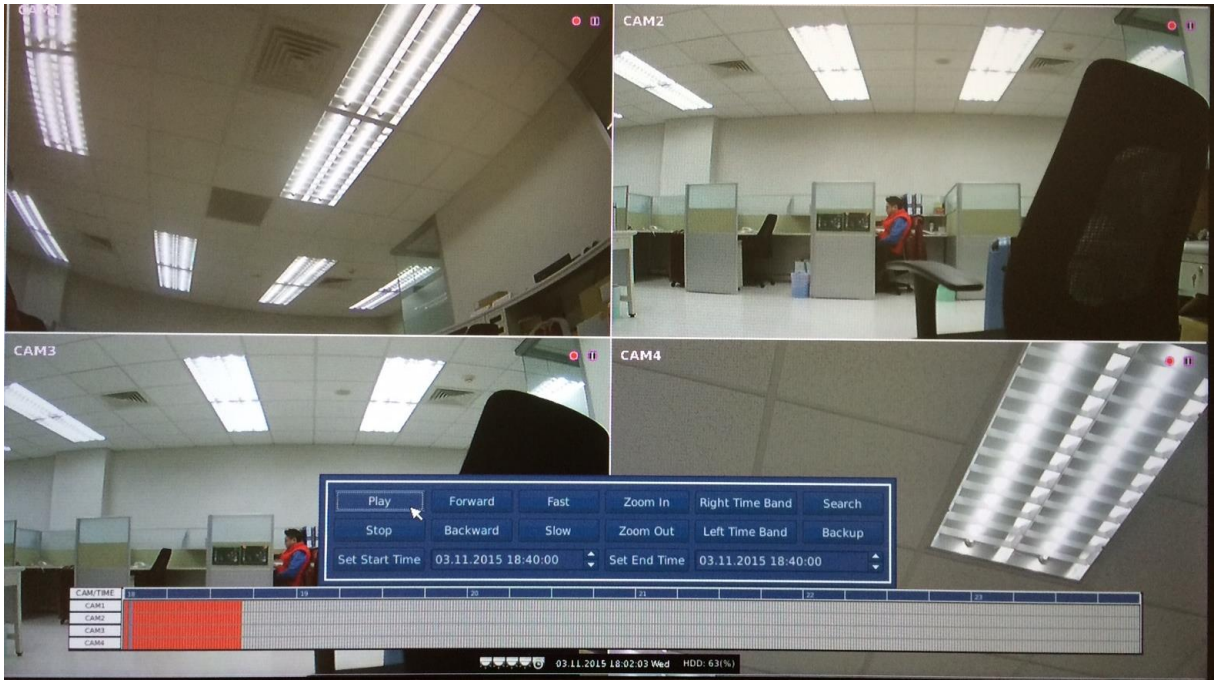
to display the following screen



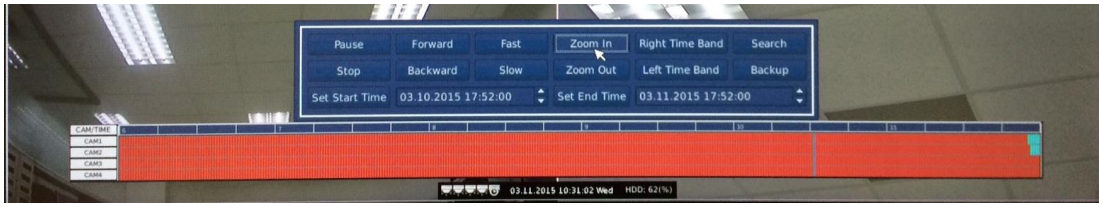
1 Press "Search" to select a date and “Time line” to select time.



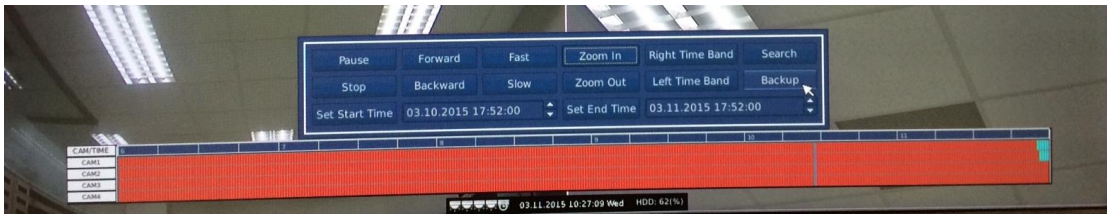
2 Press "Play" to perform playback



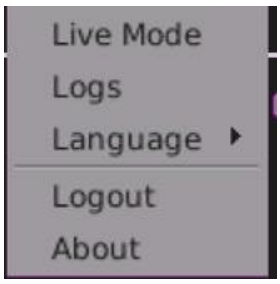
3. Press the "Forward" to play forward, press "Backward" to play backward.
Press the "Fast" to play accelerate (It is able to always press "Fast" to play accelerate).
"Slow" to play decelerated (It is able to always press "Slow" to play decelerated).
Press the "Pause" to pause play, Press the "Stop" to stop play.
Press the "Zoom In", time zone will change from 24 hours to 12 hours, press again, time zone will change to be 6 hours.
Press "Zoom Out", time zone will changes from 6 hours to 12 hours, press again, time zone will change to be 24 hours.
Press the "Right Time Band" to move the selected time zone toward right.
Press the "Left Time Band" to move the selected time zone toward left.



4 .Backup: press "Backup" to set the date ,start time, end time(USB storage device or SD card must be inserted)



5. Press the right mouse button to display the following screen

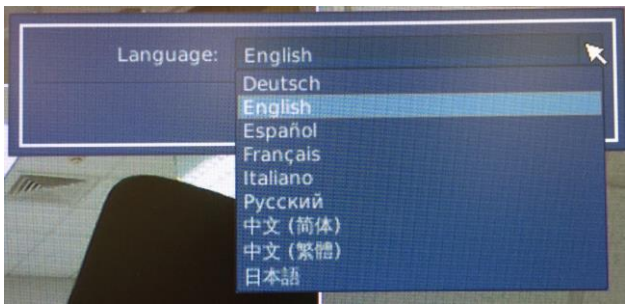


Press "Live Mode" to go back the real-time screen.

3.12 Language

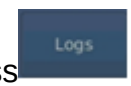
Press

, the following window is displayed

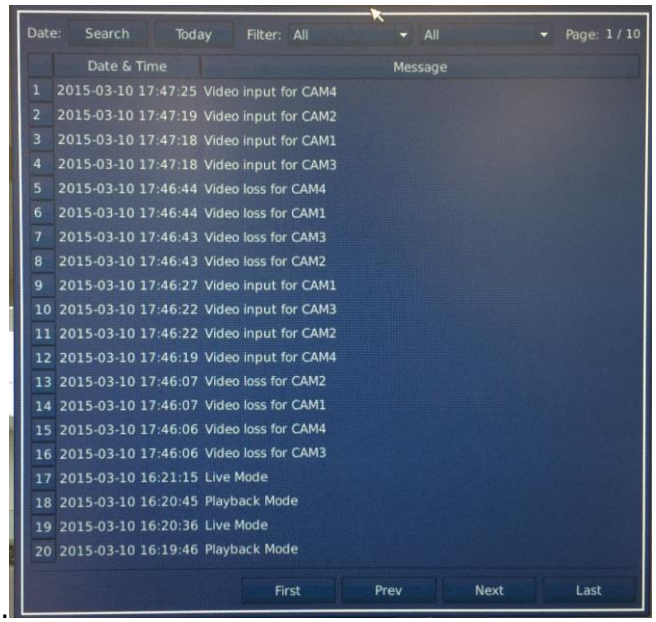


Select Language then press the "Save" to confirm setting, press "Revert" to revert again.

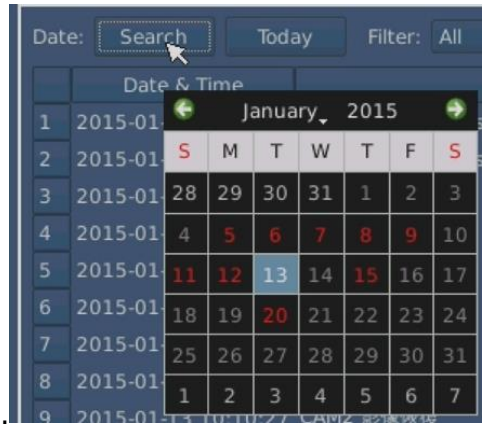
3.13 LOG

Press 

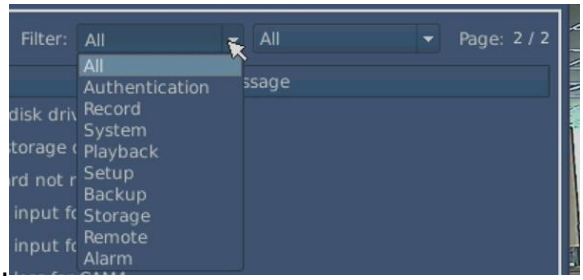
, the following window is displayed

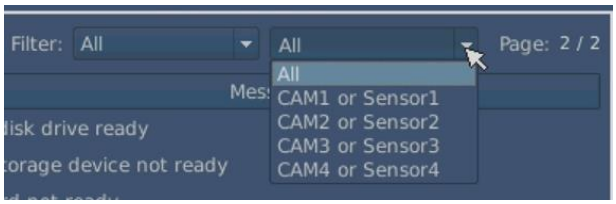

Date: Search Today Filter: All All Page: 1 / 10
Date & Time Message
1 2015-03-10 17:47:25 Video input for CAM4
2 2015-03-10 17:47:19 Video input for CAM2
3 2015-03-10 17:47:18 Video input for CAM1
4 2015-03-10 17:47:18 Video input for CAM3
5 2015-03-10 17:46:44 Video loss for CAM4
6 2015-03-10 17:46:44 Video loss for CAM1
7 2015-03-10 17:46:43 Video loss for CAM3
8 2015-03-10 17:46:43 Video loss for CAM2
9 2015-03-10 17:46:27 Video input for CAM1
10 2015-03-10 17:46:22 Video input for CAM3
11 2015-03-10 17:46:22 Video input for CAM2
12 2015-03-10 17:46:19 Video input for CAM4
13 2015-03-10 17:46:07 Video loss for CAM2
14 2015-03-10 17:46:07 Video loss for CAM1
15 2015-03-10 17:46:06 Video loss for CAM4
16 2015-03-10 17:46:06 Video loss for CAM3
17 2015-03-10 16:21:15 Live Mode
18 2015-03-10 16:20:45 Playback Mode
19 2015-03-10 16:20:36 Live Mode
20 2015-03-10 16:19:46 Playback Mode
First Prev Next Last

1. Select the date or today (Move the mouse wheel up and down to exit the page)



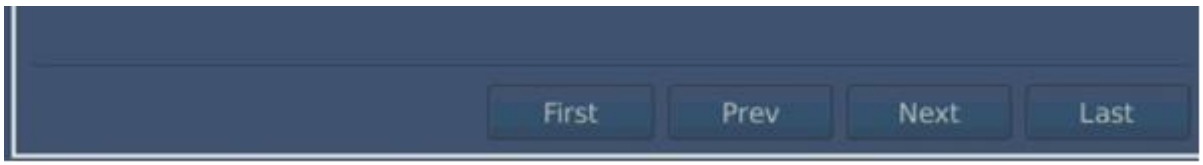
2. Select "Filter" and” cameras or Sensor”



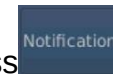


There are those items in “Filter “: All, Authentication, Record , System ,Playback, Setup ,Backup ,Storage ,Remote, Alarm.

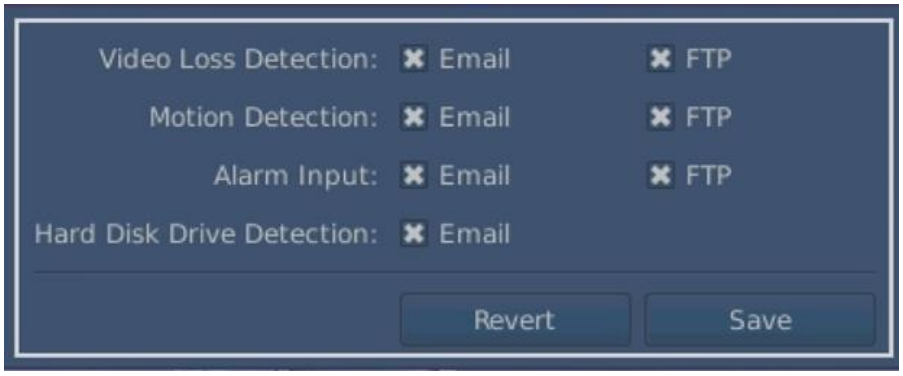
3. To select the pages of ”LOG” "First": First page, "Prev": Previous page, "Next": Next page, "Last": last page .



3.14 Notification

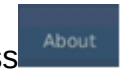
Press 

, the following window is displayed

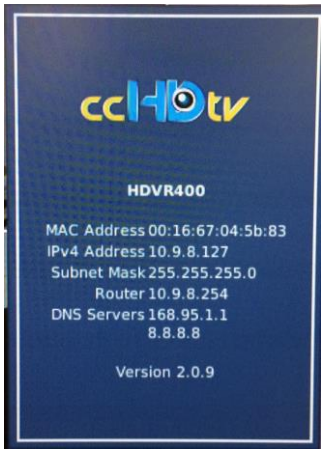


A. Video Loss Detection, Motion Detection and Alarm Input can select “Email” and” FTP” to notice.
B. Hard Disk Drive Detection select Email to notice.
C. Press the "Save" to confirm setting or press "Revert" to revert again.

3.15 About

Press 

, the following window is displayed



Show the model’s NO, network data, software version.

If there is software to update, the following screen will appear.

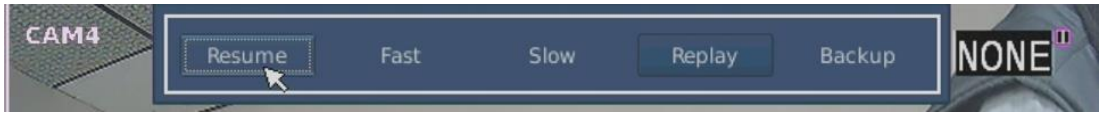
Press the "Update now", the following screen will appear after finishing the update.

Press “Reboot now” then reboot.

3.16 Pause, Replay and Backup in Live mode

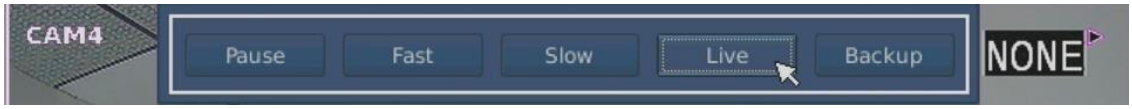
Put the Mouse on top of the screen to appear the following screen.

A. Press "Pause" screen pause.



B. Press ”Resume” to resume the screen.

C. Press the "Replay" to replay screen within 15 seconds, press the "Fast" or "Slow" to speed up or slow down the replay.

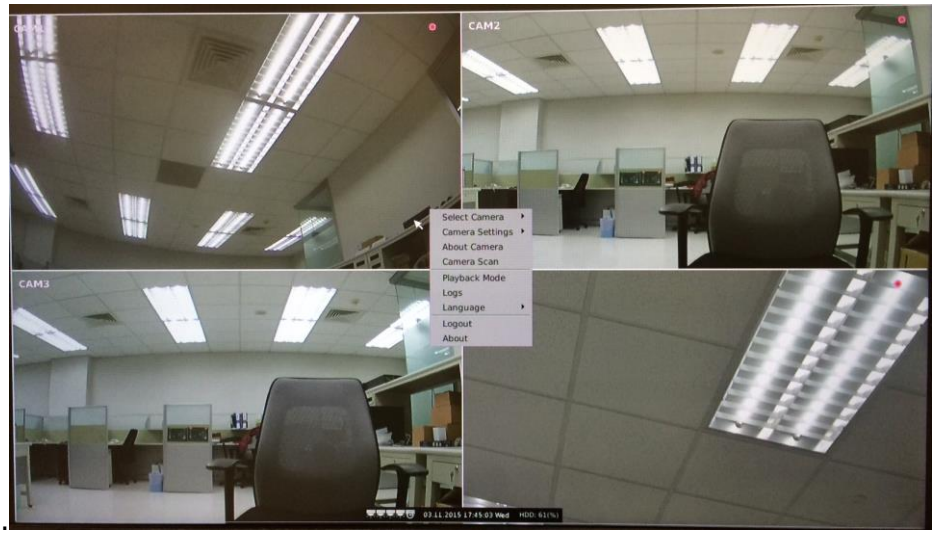


D. Press “Live” to resume live screen.

E. Press "Backup" (USB storage device or SD card must be inserted)

3.17 Quick Menu in Live mode

Press the right mouse in a grid to show the following screen.

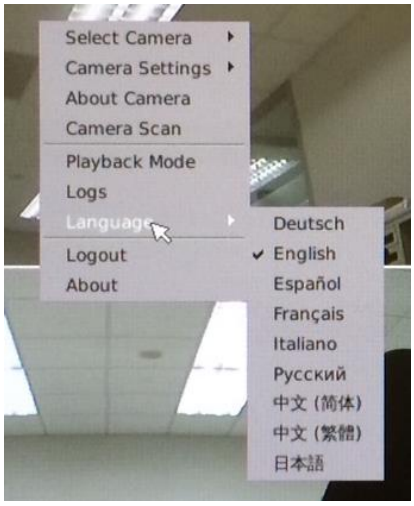


..

A. Select Camera, Camera Setting, About Camera and Camera Scan to see the 2.3-2.

B. Playback mode, log ,About to see the 3.11, 3.13, 3.15

C. Press the "language" to appear the following screen, you can directly select the language.



D. Logout or Login is accessible directly.

Chapter 4 Windows® Remote Client

You can also operate the DVR unit via Windows® remote client to monitor, playback the connected DTV cameras and manage the functions of the DVR system.

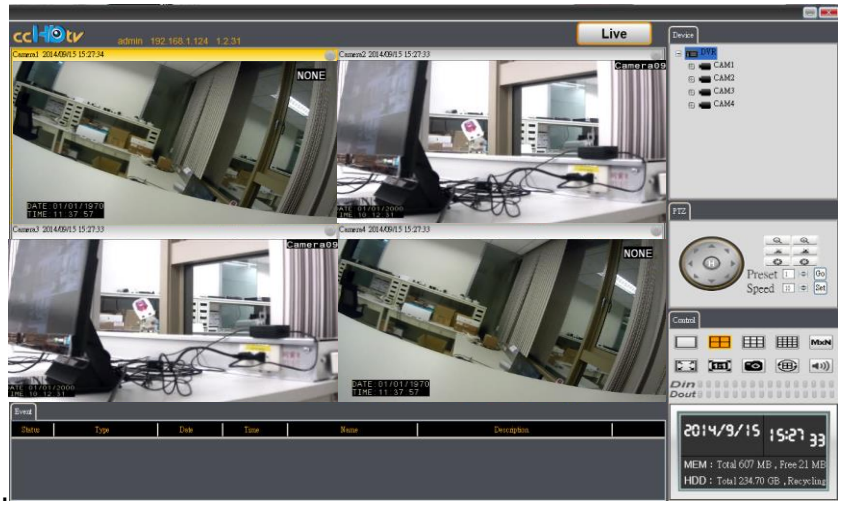
4.1 Login

Click the Start button -> DVR Client -> DVR Remote Client at your Windows® desktop. When the client is entered, you will see the following login window.

Login window

Login your DVR unit by entering DVR Name, IP Address, Port No., User Name, Password, Language and Resolution and then click OK to begin using this unit. (Note: The default administrator: User Name is “admin”, Password is “admin”). After entering the correct information, you will see the live display screen within 10 seconds.

Live display screen



The entered DVR would be listed in the drop-down menu at the DVR Name field. You can select the available DVR units from the drop-down menu during next time you log in and the system will fill in the related fields automatically and you only need to reenter the Password field to login your DVR unit.

Chapter 5 iPhone / iPad users & Android users

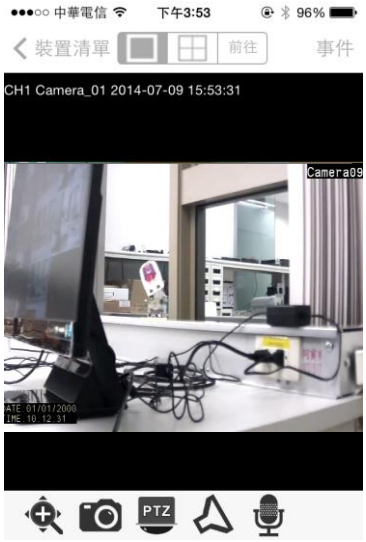
For iPhone / iPad users & Android users, please visit APP Store or Google Play to download " ccHDtv Mobile" for remote mobile device access

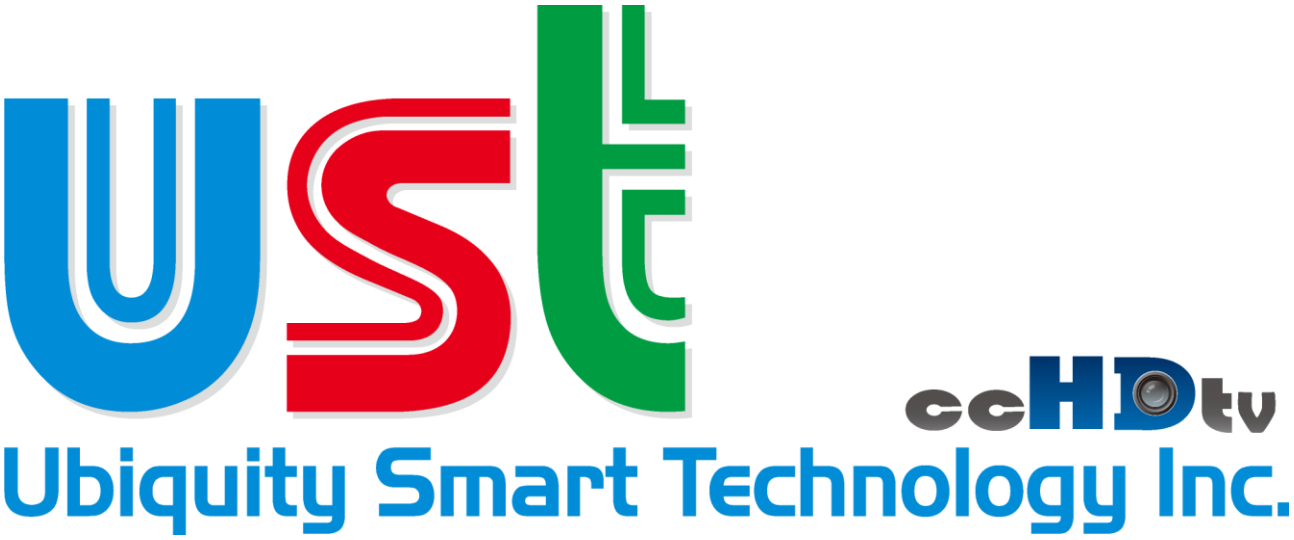
This screen appears

Setting device

Enter Device name / IP address /Port / Login ID / Password

Completed





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